

## SUMMARY OF WATER CONDITIONS

### April 1, 2011

March came in like a lion with a long series of mostly cold storms which dumped more than twice normal rainfall for the month and increased the mountain snowpack by more than half. Statewide, the pack is now the 5<sup>th</sup> biggest in the last 60 years and the most since 1995. Previously the southern ranges had been wetter than the north; March was proportionately heavier in the north and more nearly balanced the Sierra watersheds. Water supply this year will be the best in years.

**Forecasts** of April through July runoff have again been increased to nearly 165 percent of average, compared to 95 percent last year at this time. Percentages are fairly even from north to south except for the far north which is less, but still above average. Water year runoff forecasts are also excellent at 145 percent, much more than last year's actual statewide runoff of 90 percent.

**Snowpack** water content is about 170 percent of average compared to 105 percent last year. April 1 is normally the peak of snow accumulation and it appears that this will be the case this year.

**Precipitation** from October through March was about 140 percent of average; it was 105 percent one year ago. The lightest percentage was in the wet North Coast region. March precipitation was 220 percent of average statewide, heaviest in the north half of California.

**Runoff** has been about 120 percent of average so far this season, much higher than the 65 percent reported last year at this time. March runoff was more than ample at 185 percent of average. Estimated runoff of the eight major rivers of the Sacramento and San Joaquin River regions during March was 6.2 million acre-feet.

**Reservoir storage** gained about 2.4 million acre-feet during March and now stands at 110 percent of average compared to 90 percent last year. Many major reservoirs are storing to their flood control limit and were making substantial water releases at month's end.

## SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

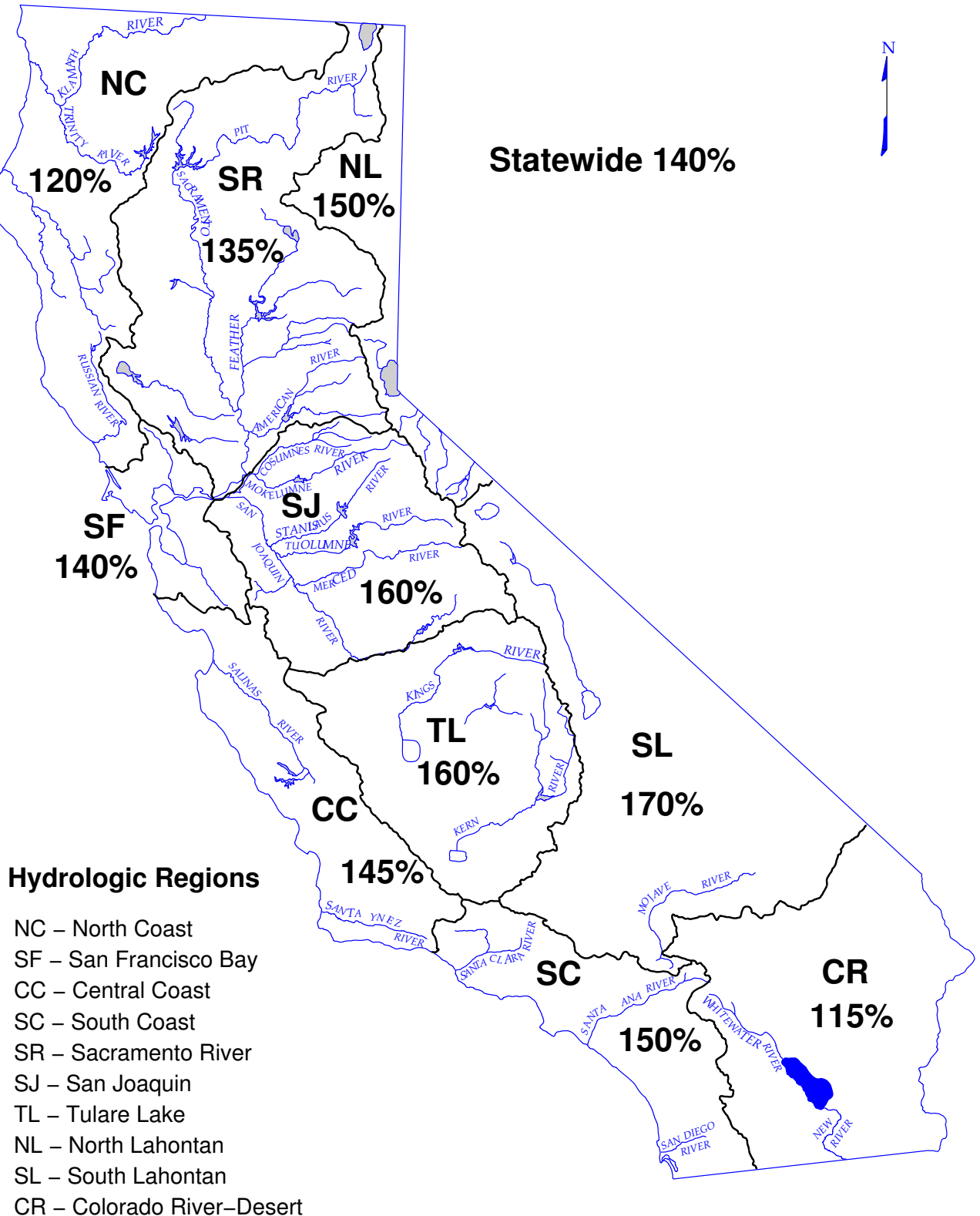
HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	April 1 SNOW WATER CONTENT	April 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APR-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	120	140	110	110	150	130
SAN FRANCISCO BAY	140	--	110	130	--	--
CENTRAL COAST	145	--	125	155	--	--
SOUTH COAST	150	--	105	125	--	--
SACRAMENTO RIVER	135	170	105	110	155	130
SAN JOAQUIN RIVER	160	175	120	185	170	175
TULARE LAKE	160	185	140	185	170	175
NORTH LAHONTAN	150	175	95	135	175	165
SOUTH LAHONTAN	170	170	110	120	150	140
COLORADO RIVER- DESERT	115	--	--	--	--	--
<b>STATEWIDE</b>	140	170	110	120	165	145

# DEPARTMENT OF WATER RESOURCES

## CALIFORNIA COOPERATIVE SNOW SURVEYS

### SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE  
October 1, 2010 through March 31, 2011



WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

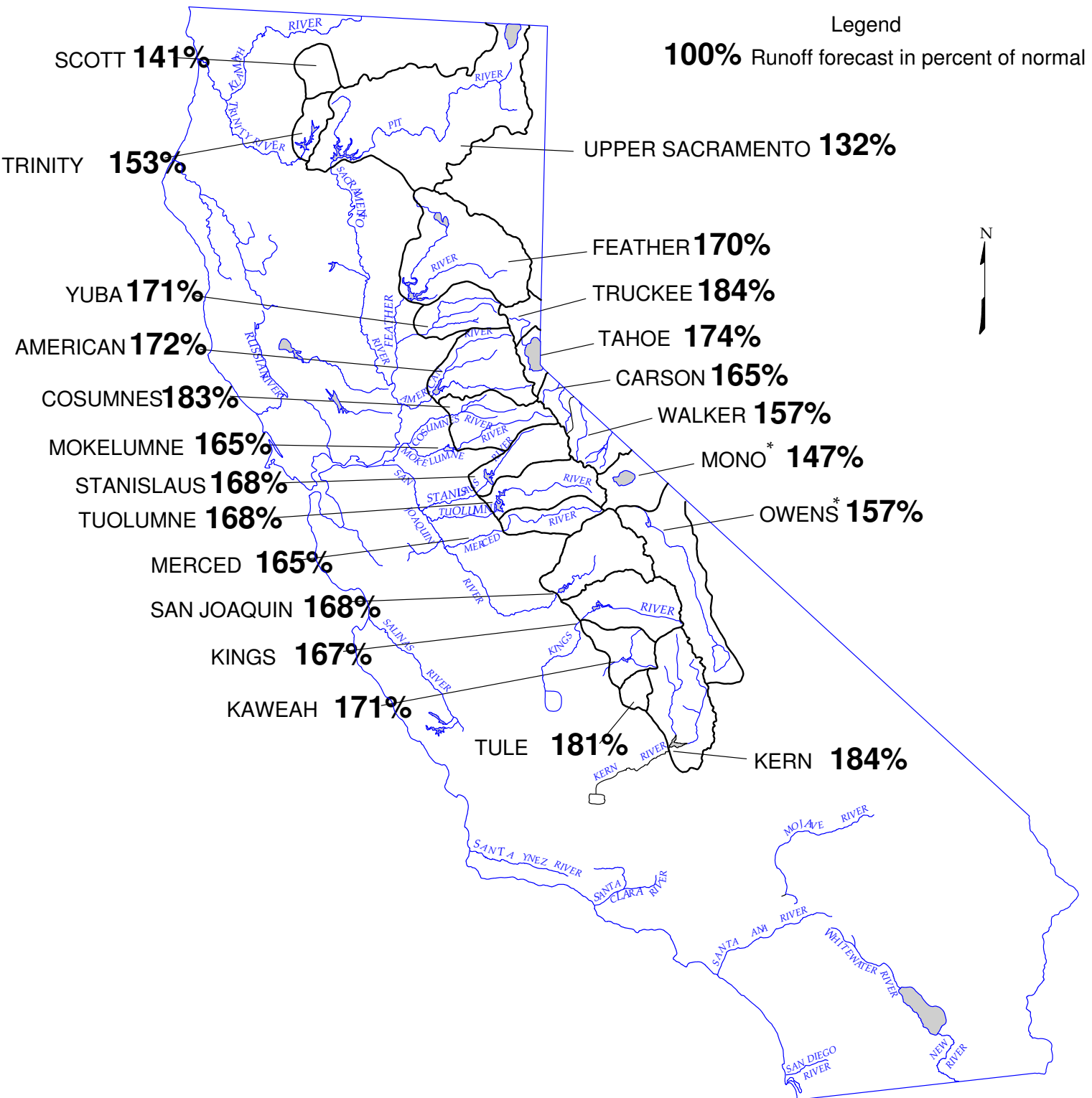
# DEPARTMENT OF WATER RESOURCES

## CALIFORNIA COOPERATIVE SNOW SURVEYS

### FORECAST OF APRIL – JULY

### UNIMPAIRED SNOWMELT RUNOFF

April 1, 2011



**APRIL 1, 2011 FORECASTS  
APRIL-JULY UNIMPAIRED RUNOFF**

HYDROLOGIC REGION and Watershed	Unimpaired Runoff in 1,000 Acre-Feet (1)					
	HISTORICAL			FORECAST		
	50 Yr Avg (2)	Max of Record	Min of Record	Apr-Jul Forecasts	Pct of Avg	80 % Probability Range (1)
<b>North Coast</b>						
Trinity River at Lewiston Lake (10)	654	1,593	80	<b>1,000</b>	153%	830 - 1,170
<b>SACRAMENTO RIVER</b>						
<b>Upper Sacramento River</b>						
Sacramento River at Delta above Shasta Lake	298	711	39	490	164%	
McCloud River above Shasta Lake	392	850	185	560	143%	
Pit River near Montgomery Creek + Squaw Creek	1,066	2,098	480	1,210	113%	
Total Inflow to Shasta Lake	1,819	3,525	726	<b>2,400</b>	132%	2,050 - 3,200
<b>Sacramento River above Bend Bridge, near Red Bluff</b>	2,494	5,075	943	<b>3,330</b>	134%	2,810 - 4,500
<b>Feather River</b>						
Feather River at Lake Almanor near Prattville (3)	333	675	120	500	150%	
North Fork at Pulga (3)	1,028	2,416	243	1,670	162%	
Middle Fork near Clio (4)	86	518	4	145	169%	
South Fork at Ponderosa Dam (3)	110	267	13	185	168%	
Feather River at Oroville	1,782	4,676	392	<b>3,030</b>	170%	2,650 - 3,880
<b>Yuba River</b>						
North Yuba below Goodyears Bar	279	647	51	480	172%	
Inflow to Jackson Mdw and Bowman Reservoirs (3)	112	236	25	180	161%	
South Yuba at Langs Crossing (3)	233	481	57	380	163%	
Yuba River near Smartsville plus Deer Creek	1,006	2,424	200	<b>1,720</b>	171%	1,450 - 2,120
<b>American River</b>						
North Fork at North Fork Dam (3)	262	716	43	450	172%	
Middle Fork near Auburn (3)	522	1,406	100	890	170%	
Silver Creek Below Camino Diversion Dam (3)	173	386	37	300	173%	
American River below Folsom Lake	1,240	3,074	229	<b>2,130</b>	172%	1,850 - 2,780
<b>SAN JOAQUIN RIVER</b>						
<b>Cosumnes River at Michigan Bar</b>	126	363	8	<b>230</b>	183%	185 - 350
<b>Mokelumne River</b>						
North Fork near West Point (5)	437	829	104	680	156%	
Total Inflow to Pardee Reservoir	461	1,065	102	<b>760</b>	165%	680 - 910
<b>Stanislaus River</b>						
Middle Fork below Beardsley Dam (3)	334	702	64	550	165%	
North Fork Inflow to McKays Point Dam (3)	224	503	34	380	170%	
Stanislaus River below Goodwin Reservoir (9)	702	1,710	116	<b>1,180</b>	168%	1,060 - 1,430
<b>Tuolumne River</b>						
Cherry Creek & Eleanor Creek near Hetch Hetchy	315	727	97	530	168%	
Tuolumne River near Hetch Hetchy	604	1,392	153	1,000	166%	
Tuolumne River below La Grange Reservoir (9)	1,220	2,682	301	<b>2,050</b>	168%	1,880 - 2,440
<b>Merced River</b>						
Merced River at Pohono Bridge	372	888	80	600	161%	
Merced River below Merced Falls (9)	632	1,587	123	<b>1,040</b>	165%	940 - 1,280
<b>San Joaquin River</b>						
San Joaquin River at Mammoth Pool (7)	1,026	2,279	235	1,710	167%	
Big Creek below Huntington Lake (8)	91	264	11	155	170%	
South Fork near Florence Lake (7)	201	511	58	330	164%	
San Joaquin River inflow to Millerton Lake	1,254	3,355	262	<b>2,100</b>	168%	1,910 - 2,440
<b>TULARE LAKE</b>						
<b>Kings River</b>						
North Fork Kings River near Cliff Camp (3)	239	565	50	400	167%	
Kings River below Pine Flat Reservoir	1,224	3,113	274	<b>2,040</b>	167%	1,880 - 2,340
<b>Kaweah River below Terminus Reservoir</b>	286	814	62	<b>490</b>	171%	440 - 610
<b>Tule River below Lake Success</b>	64	259	2	<b>115</b>	181%	100 - 165
<b>Kern River</b>						
Kern River near Kernville	384	1,203	83	690	180%	
Kern River inflow to Lake Isabella	461	1,657	84	<b>850</b>	184%	780 - 970

(1) See inside back cover for definition

(2) All 50 year averages are based on years 1956-2005 unless otherwise noted

(3) 50 year average based on years 1941-90

(4) 44 year average based on years 1936-79

(5) 36 year average based on years 1936-72

(6) 45 year average based on years 1936-81

(7) 50 year average based on years 1953-2002

(8) 50 year average based on years 1946-1995

**APRIL 1, 2011 FORECASTS  
WATER YEAR UNIMPAIRED RUNOFF**

HISTORICAL			Unimpaired Runoff in 1,000 Acre-Feet (1)									FORECAST		
50 Yr Avg (2)	Max of Record	Min of Record	Oct Thru Jan	Feb *	Mar *	Apr	May	Jun	Jul	Aug	Sep	Water Year Forecasts	Pct of Avg	80 % Probability Range (1)
1398	2990	200	439	93	242	300	390	240	70	16	10	<b>1,800</b>	129%	1625 - 1980
887	1,965	165												
1,217	2,353	557												
3,159	5,150	1,484												
6,107	10,796	2,479	1,785	485	1,485	1,000	730	400	270	240	225	<b>6,620</b>	108%	6,200 - 7,530
8,907	17,180	3,294	2,730	710	2,325	1,460	970	540	360	295	290	<b>9,680</b>	109%	9,065 - 11,060
780	1,269	366												
2,417	4,400	666												
219	637	24												
291	562	32												
4,620	9,492	994	1,445	375	1,110	1,140	1,100	570	220	125	105	<b>6,190</b>	134%	5,760 - 7,130
564	1,056	102												
181	292	30												
379	565	98												
2,373	4,926	369	920	165	610	555	660	410	95	35	25	<b>3,475</b>	146%	3,190 - 3,900
616	1,234	66												
1,070	2,575	144												
318	705	59												
2,719	6,382	349	1,120	225	870	675	860	470	125	30	20	<b>4,395</b>	162%	4,100 - 5,100
390	1,253	20	199	56	235	105	88	30	7	3	2	<b>725</b>	186%	675 - 850
626	1,009	197												
755	1,800	129	255	50	175	180	300	230	50	10	5	<b>1,255</b>	166%	1,170 - 1,410
471	929	88												
1,171	2,952	155	415	100	305	295	470	310	105	25	10	<b>2,035</b>	174%	1,910 - 2,320
461	1,147	123												
770	1,661	258												
1,951	4,631	383	700	135	415	410	710	670	260	55	20	<b>3,375</b>	173%	3,170 - 3,860
461	1,020	92												
1,007	2,787	150	355	110	260	215	390	330	105	25	10	<b>1,800</b>	179%	1,690 - 2,080
1,337	2,964	308												
112	298	14												
248	653	71												
1,836	4,642	362	490	115	275	350	710	710	330	90	40	<b>3,110</b>	169%	2,820 - 3,560
284	607	58												
1,721	4,287	386	470	100	225	320	700	700	320	95	35	<b>2,965</b>	172%	2,760 - 3,370
454	1,402	94	154	36	89	100	180	155	55	15	6	<b>790</b>	174%	730 - 940
148	615	16	92	14	46	48	42	20	5	2	1	<b>270</b>	183%	255 - 325
558	1,577	163												
730	2,318	175	210	55	100	165	295	265	125	45	25	<b>1,285</b>	176%	1,190 - 1,450

(9) Forecast point names based on USGS gage names. Stanislaus below Goodwin also known as inflow to New Melones, Tuolumne River below La Grange also known as inflow to Don Pedro, Merced River below Merced Falls also known as inflow to McClure.

(10) Coordinated Forecast by National Weather Service California-Nevada River Forecast Center and Department of Water Resources, State of California

\* Unimpaired runoff in months prior to forecast date are based on measured flows

**APRIL 1, 2011 FORECASTS  
APRIL-JULY UNIMPAIRED RUNOFF**

HYDROLOGIC REGION and Watershed	Apr-Jul Unimpaired Runoff in 1,000 Acre-Feet (1)				
	HISTORICAL			FORECAST	
	50 Yr Avg (2)	Max of Record	Min of Record	Apr-Jul Forecasts	Pct of Avg
<b>NORTH COAST</b>					
<b>Scott River</b>					
Scott River nr Ft Jones (3)	181	398	22	<b>255</b>	141%
<b>Klamath River</b>					
Total inflow to Upper Klamath Lake (4)	515	1,151	149	<b>630</b>	122%
<b>NORTH LAHONTAN</b>					
<b>Truckee River</b>					
Lake Tahoe to Farad accretions	261	713	52	<b>480</b>	184%
Lake Tahoe Rise (assuming gates closed, ft)	1.4	5.4	0.2	<b>2.4</b>	174%
<b>Carson River</b>					
West Fork Carson River at Woodfords	54	135	12	<b>90</b>	165%
East Fork Carson River near Gardnerville	187	407	43	<b>310</b>	166%
<b>Walker River</b>					
West Walker River below Little Walker, near Coleville	154	330	35	<b>250</b>	162%
East Walker River near Bridgeport	64	209	7	<b>125</b>	196%
<b>SOUTH LAHONTAN</b>					
<b>Owens River</b>					
Total tributary flow to Owens River (5)	235	579	96	<b>369</b>	157%

(1) See inside back cover for definition

(2) All 50 year averages are based on years 1956-2005 unless otherwise noted

(3) Forecast by National Weather Service California-Nevada River Forecast Center. 30 yr average (1971-2000)

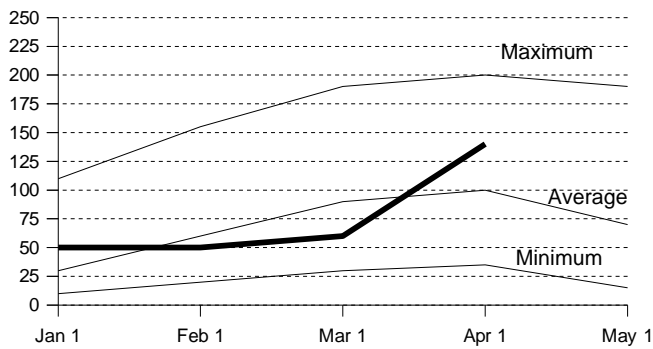
(4) Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Center, April through September forecast, 30 year average based on years 1971-2000.

(5) Forecast by Department of Water and Power, City of Los Angeles, average based on years 1951-2000.

## NORTH COAST REGION

### Snowpack Accumulation

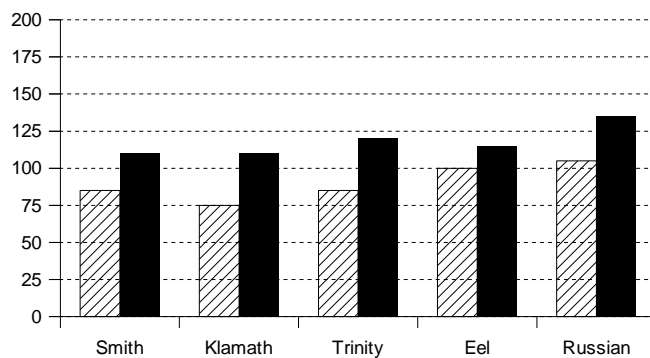
Water Content in % of April 1 Average



**SNOWPACK**- First of the month measurements made at 9 snow courses indicate an area wide snow water equivalent of 36.7 inches. This is 140 percent of the April 1 average. Last year at this time the pack was holding 31.0 inches of water.

### Precipitation

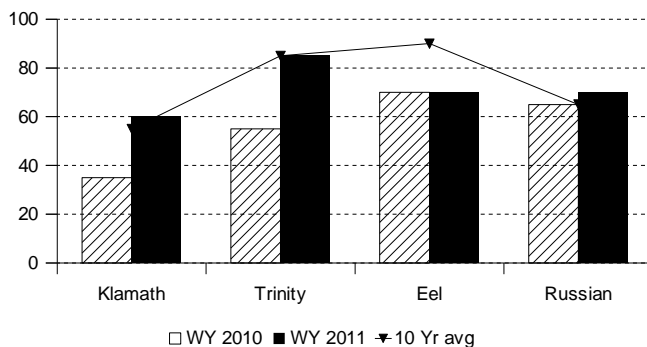
October 1 to date in % of Average



**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on this area was 120 percent of normal. Precipitation last month was about 230 percent of the monthly average. Seasonal precipitation at this time last year stood at 90 percent of normal.

### Reservoir Storage

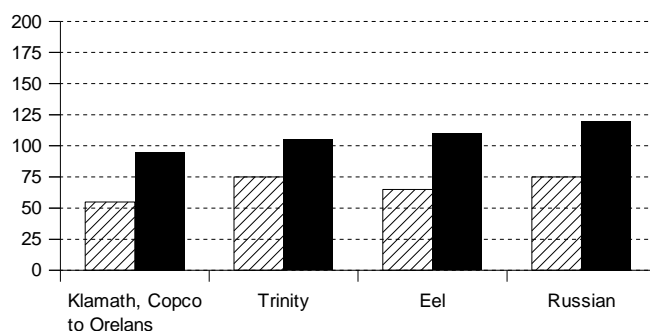
Contents of major reservoirs in % of capacity



**RESERVOIR STORAGE**- First of the month storage in 6 reservoirs was 2.6 million acre-feet which is 110 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 70 percent of average.

### Runoff

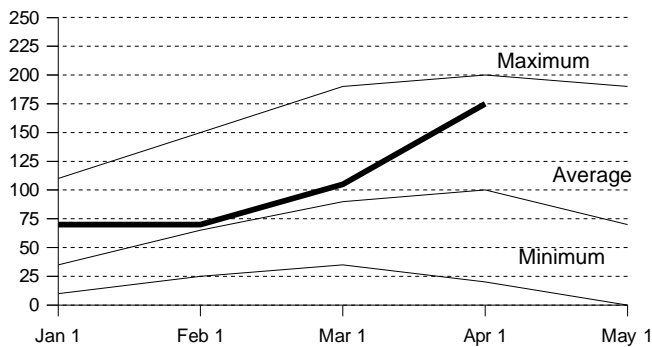
October 1 to date in % of average



**RUNOFF** -Seasonal runoff of streams draining the area totaled 10.5 million acre-feet which is 110 percent of the average for this period. Last year, runoff for the same period was 65 percent of average.

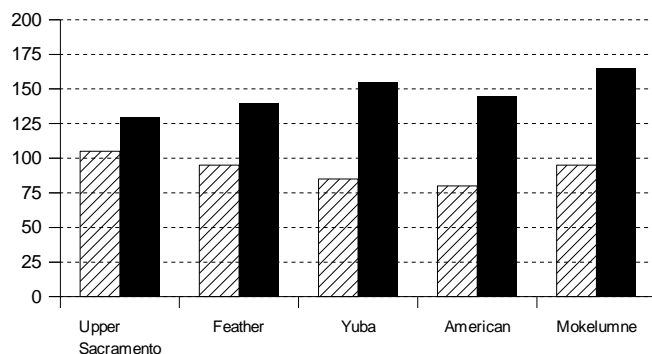
## Snowpack Accumulation

Water Content in % of April 1 Average



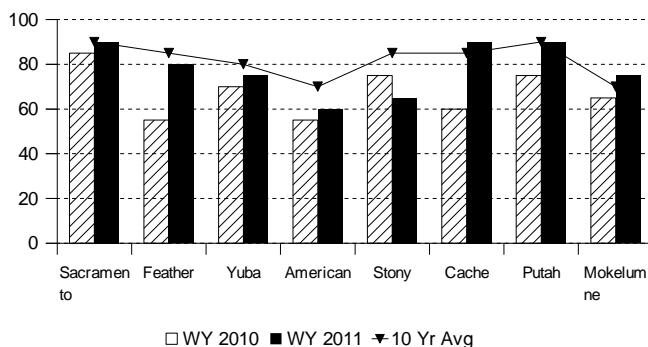
## Precipitation

October 1 to date in % of Average



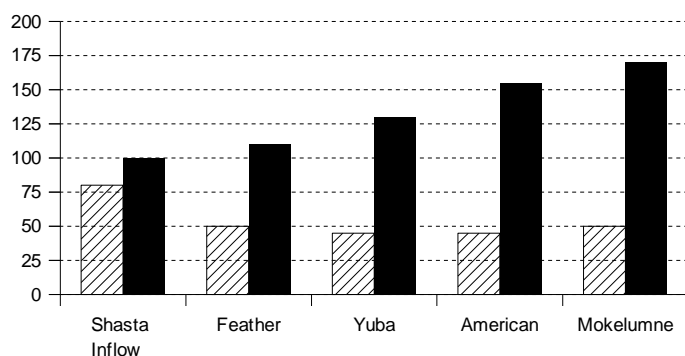
## Reservoir Storage

Contents of major reservoirs in % of capacity



## Runoff

October 1 to date in % of average



## SACRAMENTO RIVER REGION

**SNOWPACK**- First of the month measurements made at 73 snow courses indicate an area wide snow water equivalent of 49.1 inches. This is 170 percent of the April 1 average. Last year at this time the pack was holding 29.4 inches of water.

**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on this area was 135 percent of normal. Precipitation last month was about 255 percent of the monthly average. Seasonal precipitation at this time last year stood at 95 percent of normal.

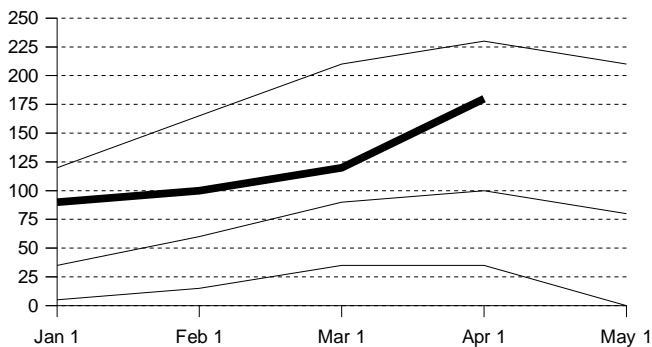
**RESERVOIR STORAGE**- First of the month storage in 43 reservoirs was 13 million acre-feet which is 105 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 90 percent of average.

**RUNOFF** - Seasonal runoff of streams draining the area totaled 12.6 million acre-feet which is 110 percent of average for this period. Last year, runoff for the same period was 65 percent of average.

The **Sacramento Region 40-30-30 Water Supply Index** is forecast to be 10.0 assuming median meteorological conditions for the remainder of the year. This classifies the year as "wet" in the Sacramento Valley according to the State Water Resources Control Board.

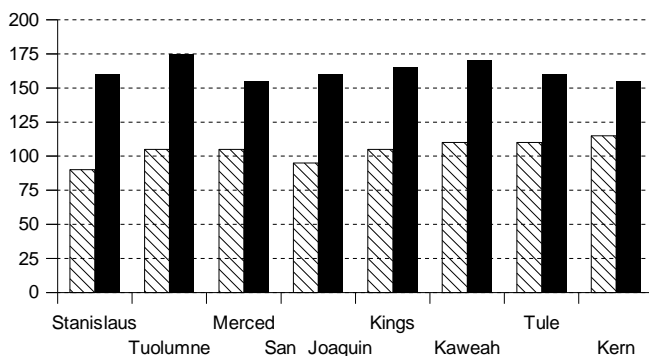
## Snowpack Accumulation

### Water Content in % of April 1 Average



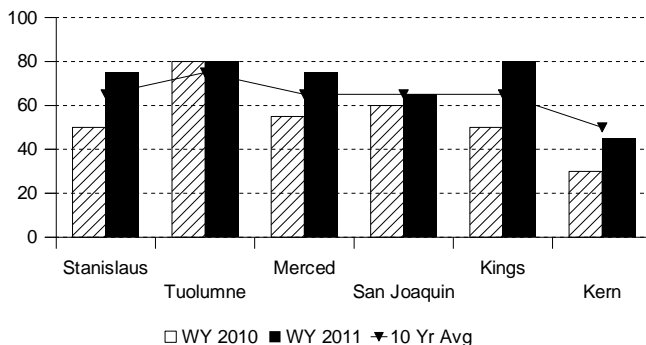
## Precipitation

October 1 to date in % of Average



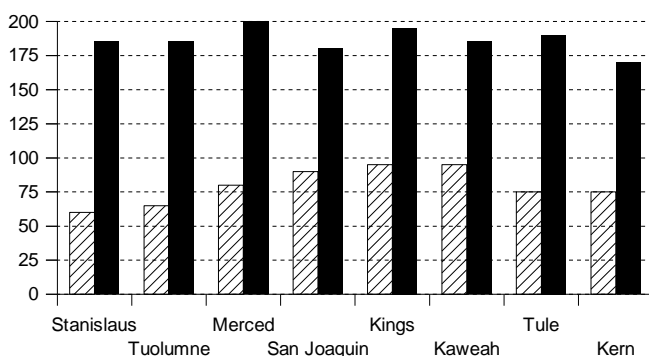
## Reservoir Storage

Contents of major reservoirs in % of capacity



## Runoff

October 1 to date in % of average



## SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

**SNOWPACK**- First of the month measurements made at 71 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 53.7 inches. This is 175 percent of the April 1 average. Last year at this time the pack was holding 33.5 inches of water. At the same time 45 **Tulare Lake Region** snow courses indicated a basin-wide snow water equivalent of 42.4 inches which is 185 percent of the average for April 1. Last year at this time the basin was holding 27.5 inches of water.

**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **San Joaquin Region** was 160 percent of normal. Precipitation last month was about 235 percent of the monthly average. Seasonal precipitation at this time last year stood at 100 percent of normal. Seasonal precipitation on the **Tulare Lake Region** was 160 percent of normal. Precipitation last month was about 180 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

**RESERVOIR STORAGE**- First of the month storage in 34 **San Joaquin Region** reservoirs was 9.1 million acre-feet which is 120 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 100 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 1.2 million acre-feet which is 140 percent of average and about 65 percent of available capacity. Storage in these reservoirs at this time last year was 95 percent of average.

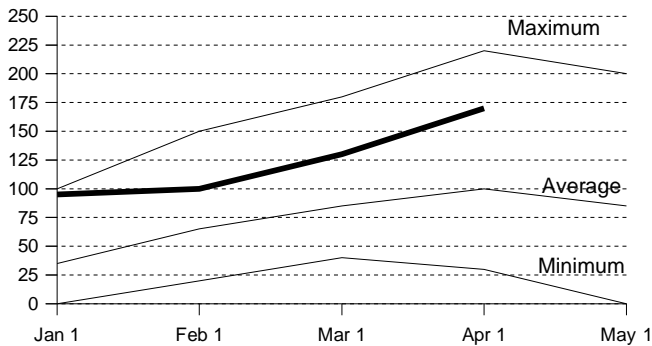
**RUNOFF**- Seasonal runoff of streams draining the **San Joaquin Region** totaled 4.7 million acre-feet which is 185 percent of average for this period. Last year, runoff for the same period was 65 percent of average. Seasonal runoff of streams draining the **Tulare Lake Basin** totaled 1.6 million acre-feet which is 185 percent of average for this period. Last year runoff for this same period was 90 percent of average.

The **San Joaquin River Region 60-20-20 Water Supply Index** is forecast to be 5.1 assuming 75 percent exceedance meteorological conditions. This classifies the year as "wet" in the San Joaquin Region according to the State Water Resources Control Board.

## NORTH AND SOUTH LAHONTAN REGIONS

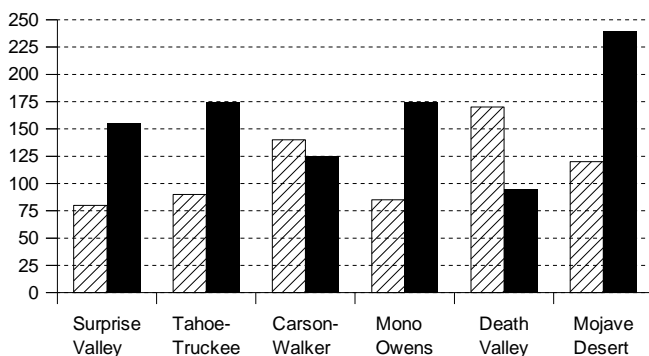
### Snowpack Accumulation

Water Content in % of April 1 Average



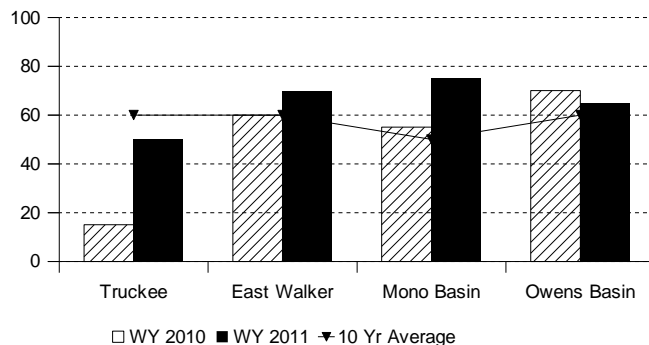
### Precipitation

October 1 to date in % of Average



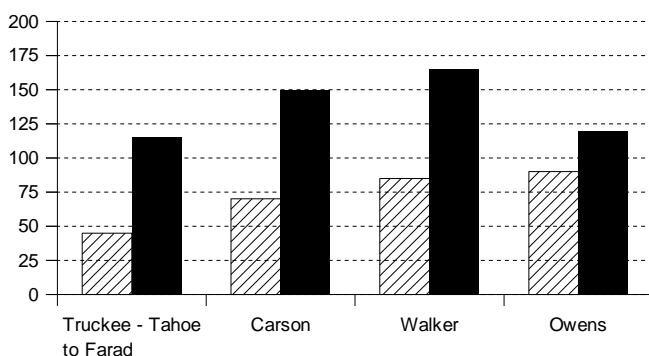
### Reservoir Storage

Contents of major reservoirs in % of capacity



### Runoff

October 1 to date in % of average



**SNOWPACK** First of the month measurements made at 17 **North Lahontan** snow courses indicate an area wide snow water equivalent of 44.1 inches. This is 175 percent of the April 1 average. Last year at this time the pack was holding 26.3 inches of water. At the same time 19 **South Lahontan Region** snow courses indicated a basin-wide snow water equivalent of 35.5 inches which is 170 percent of the average for April 1. Last year at this time the basin was holding 21 inches of water.

**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **North Lahontan** was 150 percent of normal. Precipitation last month was about 235 percent of the monthly average. Seasonal precipitation at this time last year stood at 105 percent of normal. Seasonal precipitation on the **South Lahontan** was 170 percent of normal. Precipitation last month was 135 percent of the monthly average. Seasonal precipitation at this time last year stood at 125 percent of normal.

**RESERVOIR STORAGE** First of the month storage in 5 **North Lahontan** reservoirs was 552 thousand acre-feet which is 95 percent of average. About 50 percent of available capacity was being used. Storage in these reservoirs at this time last year was 30 percent of average. Lake Tahoe was 2.65 feet above its natural rim on April 1.

First of the month storage in 8 **South Lahontan** reservoirs was 290 thousand acre-feet which is 110 percent of average and about 70 percent of available capacity. Storage in these reservoirs at this time last year was 105 percent of average.

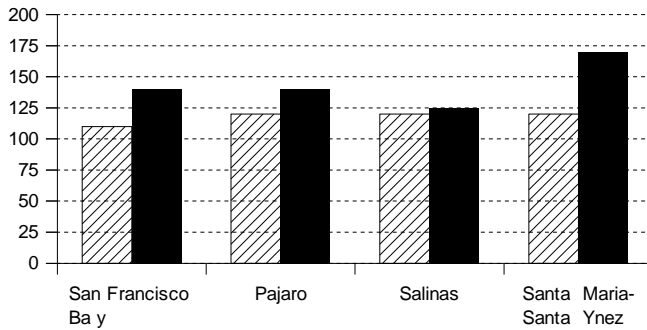
**RUNOFF** Seasonal runoff of streams draining the **North Lahontan Region** totaled 392 thousand acre-feet which is 135 percent of average for this period. Last year, runoff for the same period was 60 percent of average.

Seasonal runoff of the Owens River in the **South Lahontan** totaled 78 thousand acre-feet which is 120 percent of average for this period. Last year runoff for this same period was 90 percent of average.

## SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

### Precipitation

October 1 to date in % of Average

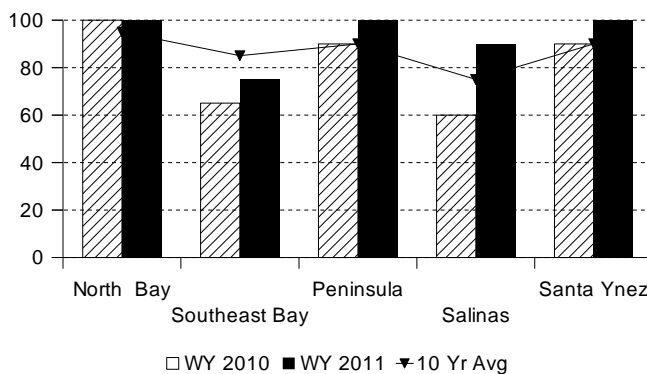


**PRECIPITATION** - Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 140 percent of normal. Precipitation last month was 270 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

Seasonal precipitation on the **Central Coast Region** was 145 percent of normal. Precipitation last month was about 255 percent of the monthly average. Seasonal precipitation at this time last year stood at 120 percent of normal.

### Reservoir Storage

Contents of major reservoirs in % of capacity

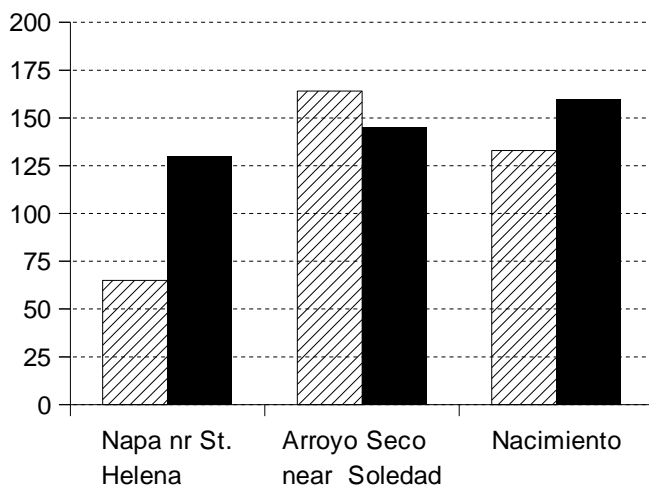


**RESERVOIR STORAGE** - First of the month storage in 17 **San Francisco Bay Region** reservoirs was 590 thousand acre-feet which is 110 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 95 percent of average.

First of the month storage in 6 **Central Coast Region** reservoirs was 887 thousand acre-feet which is 125 percent of average and about 90 percent of available capacity. Storage in these reservoirs at this time last year was 95 percent of average.

### Runoff

October 1 to date in % of average



**RUNOFF** - Seasonal runoff of the Napa River in the **San Francisco Bay Region** totaled 89 thousand acre-feet which is 130 percent of average for this period. Last year, runoff for the same period was 65 percent of average.

Seasonal runoff of streams draining the **Central Coast Region** totaled 446 thousand acre-feet which is 155 percent of average for this period. Last year runoff for this same period was 145 percent of average.

## **SOUTH COAST AND COLORADO RIVER REGIONS**

**PRECIPITATION** - October through March (seasonal) precipitation on the **South Coast Region** is 150 percent of normal. March precipitation was 125 percent of the monthly average. Seasonal precipitation at this time last year was 105 percent of normal. Seasonal precipitation on the **Colorado River-Desert Region** is 115 percent of normal. March precipitation was 20 percent of the monthly average. Seasonal precipitation at this time last year stood at 180 percent of average.

**RESERVOIR STORAGE** – March 31 storage in 29 major **South Coast Region** reservoirs is 1.6 million acre-feet or 105 percent of average. About 80 percent of available capacity is being used. Storage in these reservoirs at this time last year was 90 percent of average.

On March 31 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 26.3 million acre-feet or about 65 percent of average. About 50 percent of available capacity was in use. Last year at this time, these reservoirs were storing 70 percent of average.

**RUNOFF** - Seasonal runoff from selected **South Coast Region** streams totaled 48 thousand acre-feet which is 125 percent of average. Seasonal runoff from these streams last year was 80 percent of average.

**COLORADO RIVER** - The April -July inflow to Lake Powell is forecast to be 9.5 million acre-feet, which is 120 percent of average. The April 1 snowpack in the Colorado River basin above Lake Powell is 120 percent, highest in the Duschene at 145 percent and lowest in the San Juan at 85 percent.

## MAJOR WATER DISTRIBUTION PROJECTS

### RESERVOIR STORAGE

(AVERAGES BASED ON 1951-2000 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	2010 1,000 AF	STORAGE AT END OF March 2011 1,000 AF	PERCENT AVERAGE	PERCENT CAPACITY
<i>STATE WATER PROJECT</i>						
Lake Oroville	3,538	2,754	1,650	2,840	103%	80%
San Luis Reservoir (SWP)	1,062	991	834	1,068	108%	101%
Lake Del Valle	77	37	41	41	109%	53%
Lake Silverwood	73	67	70	71	107%	98%
Pyramid Lake	171	164	168	168	102%	98%
Castaic Lake	325	286	270	310	109%	95%
Perris Lake	132	118	67	73	62%	56%
<i>CENTRAL VALLEY PROJECT</i>						
Trinity Lake	2,448	1,960	1,303	2,108	108%	86%
Lake Shasta	4,552	3,736	3,869	4,032	108%	89%
Whiskeytown Lake	241	212	214	235	111%	97%
Folsom Lake	977	626	562	635	101%	65%
New Melones Reservoir	2,420	1,486	1,267	1,941	131%	80%
Millerton Lake	520	360	421	431	120%	83%
San Luis Reservoir (CVP)	971	883	881	967	110%	100%
<i>COLORADO RIVER PROJECT</i>						
Lake Mead	26,159	20,218	11,550	11,170	55%	43%
Lake Powell	24,322	18,197	13,696	12,804	70%	53%
Lake Mohave	1,810	1,679	1,676	1,705	102%	94%
Lake Havasu	619	557	564	581	104%	94%
<i>EAST BAY MUNICIPAL UTILITY DISTRICT</i>						
Pardee Res	198	182	168	199	110%	101%
Camanche Reservoir	417	260	326	327	126%	78%
East Bay (4 res.)	147	135	132	145	107%	98%
<i>CITY AND COUNTY OF SAN FRANCISCO</i>						
Hetch-Hetchy Reservoir	360	140	263	209	150%	58%
Cherry Lake	268	130	246	210	162%	78%
Lake Eleanor	26	12	20	22	183%	83%
South Bay/Peninsula (4 res.)	225	178	168	195	109%	87%
<i>CITY OF LOS ANGELES (D.W.P.)</i>						
Lake Crowley	183	129	133	122	95%	67%
Grant Lake	48	27	34	45	164%	95%
Other Aqueduct Storage (6 res.)	83	77	56	51	66%	61%

# TELEMETERED SNOW WATER EQUIVALENTS

April 1, 2010

(AVERAGES BASED ON PERIOD RECORD)

		INCHES OF WATER EQUIVALENT				
BASIN NAME		APRIL 1		PERCENT	24 HRS	1 WEEK
STATION NAME	ELEV	AVERAGE	Apr 1 OF AVERAGE		PREVIOUS	PREVIOUS
<b>TRINITY RIVER</b>						
Peterson Flat	7150'	29.2	35.6	122.1	35.4	34.6
Red Rock Mountain	6700'	39.6	63.9	161.5	63.5	60.1
Bonanza King	6450'	40.5	54.5	134.6	55.0	54.0
Shimmy Lake	6400'	40.3	54.7	135.6	53.7	48.6
Middle Boulder 3	6200'	28.3	42.5	150.0	42.4	41.6
Highland Lakes	6030'	29.9	61.0	203.9	60.1	62.8
Scott Mountain	5900'	16.0	30.6	191.2	30.8	30.5
Mumbo Basin	5650'	22.4	41.0	183.2	40.3	40.4
Big Flat	5100'	15.8	25.5	161.5	25.4	25.8
Crowder Flat	5100'	—	0.3	—	0.3	0.0
<b>SACRAMENTO RIVER</b>						
Cedar Pass	7100'	18.1	12.8	70.7	12.8	11.4
Blacks Mountain	7050'	12.7	12.5	98.2	12.2	12.1
Sand Flat	6750'	42.4	54.3	128.0	54.1	53.7
Medicine Lake	6700'	32.6	27.0	82.8	26.6	22.8
Adin Mountain	6200'	13.6	12.8	94.1	12.9	11.9
Snow Mountain	5950'	27.0	37.4	138.7	37.1	37.7
Slate Creek	5700'	29.0	76.7	264.5	74.7	83.2
Stouts Meadow	5400'	36.0	47.6	132.2	46.9	48.2
<b>FEATHER RIVER</b>						
Lower Lassen Peak	8250'	—	79.5	—	79.0	73.2
Kettle Rock	7300'	25.5	23.2	90.8	22.6	21.7
Grizzly Ridge	6900'	29.7	27.1	91.2	26.7	25.4
Pilot Peak	6800'	52.6	38.4	73.0	37.9	35.2
Gold Lake	6750'	36.5	42.5	116.4	42.0	38.4
Humbog	6500'	28.0	42.0	150.1	41.4	39.1
Harkness Flat	6200'	28.5	30.7	107.8	30.3	30.1
Rattlesnake	6100'	14.0	25.0	178.3	24.4	24.7
Bucks Lake	5750'	44.7	55.8	124.8	55.4	55.9
Four Trees	5150'	20.0	29.5	147.6	29.4	31.3
<b>EEL RIVER</b>						
Noel Spring	5100'	—	—	—	—	—
<b>YUBA &amp; AMERICAN RIVERS</b>						
Lake Lois	8600'	39.5	46.5	117.6	45.3	37.6
Schneiders	8750'	34.5	37.9	109.9	36.9	34.3
Carson Pass	8353'	—	31.8	—	31.5	29.7
Caples Lake	8000'	30.9	29.0	94.0	28.4	27.5
Alpha	7600'	35.9	31.4	87.4	31.1	26.7
Meadow Lake	7200'	55.5	43.7	78.7	43.0	38.4
Silver Lake	7100'	22.7	25.7	113.3	25.4	23.9
Central Sierra Snow Lab	6900'	33.6	38.6	114.9	38.5	35.8
Huysink	6600'	42.6	33.5	78.6	33.1	31.9
Van Vleck	6700'	35.9	39.8	110.9	39.1	38.2
Robinson Cow Camp	6480'	—	—	—	—	—
Robbs Saddle	5900'	21.4	27.5	128.3	26.7	26.0
Greek Store	5600'	21.0	28.5	135.7	28.1	27.6
Blue Canyon	5280'	9.0	16.6	184.9	16.4	17.0
Robbs Powerhouse	5150'	5.2	16.1	310.4	15.8	15.9
<b>MOKELUMNE &amp; STANISLAUS RIVERS</b>						
Deadman Creek	9250'	37.2	26.3	70.7	25.9	24.1
Highland Meadow	8700'	47.9	—	—	—	—
Gianelli Meadow	8400'	55.5	35.4	63.8	34.9	35.5
Lower Relief Valley	8100'	41.2	37.4	90.7	37.2	35.8
Blue Lakes	8000'	33.1	26.6	80.4	26.5	24.8
Mud Lake	7900'	44.9	—	—	—	—
Stanislaus Meadow	7750'	47.5	41.2	86.8	40.9	39.8
Bloods Creek	7200'	35.5	28.1	79.1	27.7	27.5
Black Springs	6500'	32.0	33.0	103.1	32.5	32.4
<b>TUOLUMNE &amp; MERCED RIVERS</b>						
Tioga Pass Entrance	9945'	—	—	—	—	—
Dana Meadows	9800'	27.7	27.3	98.6	27.0	26.7
Slide Canyon	9200'	41.1	35.3	86.0	34.9	32.7
Lake Tenaya	8150'	33.1	32.8	99.1	32.2	31.7
Tuolumne Meadows	8600'	22.6	18.9	83.5	18.0	18.5
Horse Meadow	8400'	48.6	44.5	91.5	44.0	42.0
Ostrander Lake	8200'	34.8	32.5	93.5	32.0	32.2
White Wolf	7900'	—	29.8	—	29.4	28.6
Paradise Meadow	7650'	41.3	—	—	—	—
Gin Flat	7050'	34.2	—	—	—	—
Lower Kibbie Ridge	6700'	27.4	23.4	85.4	23.2	23.6

**SAN JOAQUIN RIVER**

Volcanic Knob	10050'	30.1	13.7	45.5	13.3	13.2
Agnew Pass	9450'	32.3	30.2	93.4	29.6	29.3
Kaiser Point	9200'	37.8	27.4	72.4	27.4	27.6
Green Mountain	7900'	30.8	31.9	103.7	30.9	31.4
Devil's Postpile	7569'	—	18.8	—	17.1	19.4
Tamarack Summit	7550'	30.5	31.4	102.9	30.8	31.9
Chilkoot Meadow	7150'	38.0	43.9	115.6	43.4	44.8
Huntington Lake	7000'	20.1	28.9	143.9	28.2	29.8
Graveyard Meadow	6900'	18.8	28.4	151.3	28.2	29.0
Poison Ridge	6900'	28.9	38.4	132.9	37.2	38.0

**KINGS RIVER**

Bishop Pass	11200'	34.0	31.7	93.2	31.1	30.9
Charlotte Lake	10400'	27.5	26.8	97.3	26.4	26.4
State Lakes	10300'	29.0	30.8	106.2	29.7	29.9
Mitchell Meadow	9900'	32.9	—	—	—	—
Blackcap Basin	10300'	34.3	38.4	111.8	37.3	37.3
Upper Burnt Corral	9700'	34.6	38.6	111.7	37.7	37.5
West Woodchuck Meadow	9100'	32.8	36.0	109.8	36.0	36.0
Big Meadows	7600'	25.9	28.5	110.2	27.7	29.0

**KAWEAH & TULE RIVERS**

Farewell Gap	9500'	34.5	42.2	122.4	41.6	41.3
Quaking Aspen	7200'	21.0	30.3	144.3	30.2	32.0
Giant Forest	6650'	10.0	18.1	181.0	18.0	20.3

**KERN RIVER**

Upper Tyndall Creek	11400'	27.7	19.3	69.7	19.3	19.4
Crabtree Meadow	10700'	19.8	17.8	90.1	17.7	17.9
Chagoopa Plateau	10300'	21.8	22.4	102.8	23.4	23.1
Pascoes	9150'	24.9	—	—	—	—
Tunnel Guard Station	8900'	15.6	15.2	97.6	15.1	16.5
Wet Meadows	8950'	30.3	32.2	106.3	32.0	33.9
Casa Vieja Meadows	8300'	20.9	26.7	127.7	27.1	25.4
Beach Meadows	7650'	11.0	—	—	—	—

**TRUCKEE RIVER**

Independence Lake	8450'	41.4	37.2	89.9	37.1	33.2
Big Meadows	8700'	25.7	22.0	85.6	22.0	20.4
Squaw Valley	8200'	46.5	43.0	92.5	42.5	36.8
Independence Camp	7000'	21.8	16.3	74.8	16.3	15.6
Independence Creek	6500'	12.7	15.0	118.1	15.0	14.5
Truckee 2	6400'	14.3	19.4	135.7	19.1	18.6

**LAKE TAHOE BASIN**

Mount Rose Ski Area	8900'	38.5	32.1	83.4	32.0	28.9
Heavenly Valley	8800'	28.1	21.4	76.2	21.6	19.7
Hagans Meadow	8000'	16.5	15.1	91.5	15.2	14.3
Marlette Lake	8000'	21.1	22.4	106.2	22.2	20.7
Echo Peak 5	7800'	39.5	34.2	86.6	33.8	31.2
Rubicon Peak 2	7500'	29.1	25.0	85.9	24.0	22.1
Tahoe City Cross	6750'	16.0	9.7	60.6	9.6	9.8
Ward Creek 3	6750'	39.4	34.5	87.6	34.1	30.6
Fallen Leaf Lake	6250'	7.0	5.0	71.4	4.8	6.4

**CARSON RIVER**

Ebbetts Pass	8700'	38.8	33.6	86.6	33.6	33.4
Horse Meadow	8557'	—	18.9	—	18.8	17.6
Burnside Lake	8129'	—	25.6	—	25.7	24.5
Forestdale Creek	8017'	—	33.0	—	32.6	30.7
Poison Flat	7900'	16.2	14.1	87.0	14.1	15.0
Monitor Pass	8350'	—	15.2	—	15.2	15.1
Spratt Creek	6150'	4.5	0.0	0.0	0.0	3.2

**WALKER RIVER**

Leavitt Lake	9600'	—	50.6	—	50.9	47.5
Summit Meadow	9313'	—	22.5	—	22.5	21.6
Virginia Lakes	9300'	20.3	15.0	73.9	15.0	14.2
Lobdell Lake	9200'	17.3	16.8	97.1	16.5	16.2
Sonora Pass Bridge	8750'	26.0	23.6	90.8	23.5	21.7
Leavitt Meadows	7200'	8.0	13.7	171.2	13.7	14.6

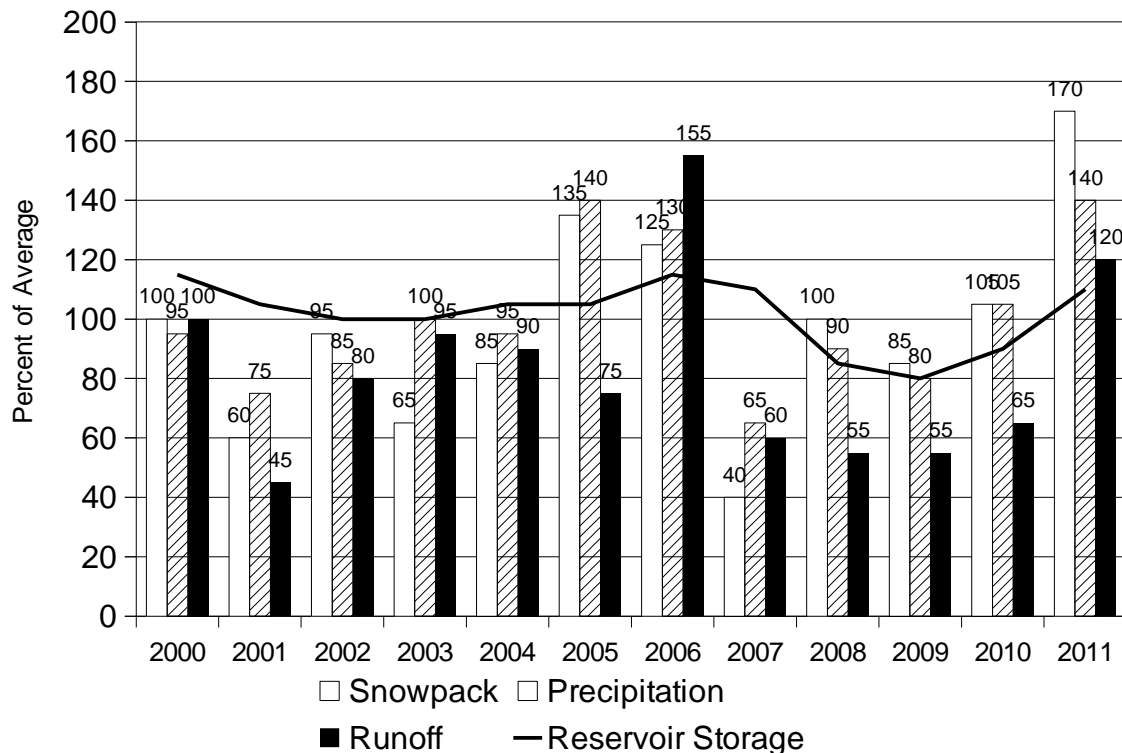
**OWENS RIVER/MONO LAKE**

Gem Pass	10750'	31.7	36.4	114.8	36.2	35.9
Sawmill	10200'	19.4	14.2	73.0	13.2	13.6
Cottonwood Lakes	10150'	11.6	19.4	167.2	18.8	19.6
Big Pine Creek	9800'	17.9	16.3	91.0	15.8	15.7
South Lake	9600'	16.0	17.8	111.0	17.3	17.4
Mammoth Pass	9300'	42.4	36.5	86.0	35.3	34.3
Rock Creek Lakes	9700'	14.0	—	—	—	—

NORMAL SNOWPACK ACCUMULATION EXPRESSED AS A PERCENT OF APRIL 1ST AVERAGE

AREA	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Central Valley North	45%	70%	90%	100%	75%
Central Valley South	45%	65%	85%	100%	80%
North Coast	40%	60%	85%	100%	80%

## April 1 Statewide Conditions



## SNOWLINES

Western Snow Conference It's not too late to attend the annual meeting in South Lake Tahoe April 18-21. This meeting will be hosted by the South Pacific Region. Don't miss out on an opportunity to attend this meeting of the premier organization devoted to the study of snow and runoff. Further information is at <http://www.westernsnowconference.org/> or contact Frank Gehrke 916-574-2635. The short course on Monday "Precipitation Runoff Modeling System Overview & Use, Presented as a Case Study: California's Feather River" is particularly germane to water management

Depicted on this month's cover is the Central Sierra Snow Lab in Soda Springs, CA on March 28 of this year. Snow depth is 5.6 m. Partially buried is the fire escape off the third story bathroom window; the other two windows are on the third story as well. Photo taken by Randall Osterhuber.